Increasing Triplet Subsequence (View)

Given an integer array `nums`, return `true` *if there exists a triple of indices* `(i, j, k)` *such that* `i < j < k` *and* `nums[i] < nums[j] < nums[k]`. If no such indices exists, return `false`.

Example 1:

```
Input: nums = [1,2,3,4,5]

Output: true

Explanation: Any triplet where i < j < k is valid.
```

Example 2:

```
Input: nums = [5,4,3,2,1]

Output: false

Explanation: No triplet exists.
```

Example 3:

```
Input: nums = [2,1,5,0,4,6]

Output: true

Explanation: The triplet (3, 4, 5) is valid because nums[3] == 0 < nums[4] == 4 < nums[5] == 6.
```

Constraints:

- $1 <= nums.length <= 5 * 10^5$
- $-2^{31} <= nums[i] <= 2^{31} - 1$

Follow up: Could you implement a solution that runs in $O(n)$ time complexity and $O(1)$ space complexity?